

# Notice of Allowability

## Application No.

10/752,875

## Examiner

CHUCK O. KENDALL

## Applicant(s)

RONEN ET AL.

## Art Unit

2192

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 05/05/08.
2. ☒ The allowed claim(s) is/are 1-3 and 5-29.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 01/06/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 07/16/08.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

### **Examiners Amendment**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Summit Bhattacharya registration no. 51,469 on 07/16/08 to correct lack of antecedent basis in claims.

It is Applicant's position that the specification provides support for "computer readable medium" and "machine readable medium", and that these amendments are being made for clarification purposes.

The application has been amended as follows:

#### **IN THE CLAIMS**

2. Please amend claims 9 – 25 and claims 28 – 29.

Claim 9 (currently amended)

On line 1, before "containing a fused instruction ", replace "  
computer readable medium with", computer storage device

Claim 10 (currently amended)

On line 1, before "of claim ", replace " computer readable  
medium with", computer storage device

Claim 11 (currently amended)

On line 1, before "of claim ", replace " computer readable  
medium with", computer storage device

Claim 12 (currently amended)

On line 1, before "of claim ", replace " computer readable  
medium with", computer storage device

Claim 13 (currently amended)

On line 1, before "of claim replace " computer readable medium  
with", computer storage device

Claim 14 (currently amended)

On line 1, before "of claim ", replace " computer readable  
medium with", computer storage device

Claim 15 (currently amended)

On line 1, before "of claim ", replace " computer readable medium with", computer storage device

Claim 16 (currently amended)

On line 1, before "of claim ", replace " computer readable medium with", computer storage device

Claim 17 (currently amended)

On line 1, before "containing a compiler ", replace " computer readable medium with", computer storage device

Claim 18 (currently amended)

On line 1, before "of claim ", replace " computer readable medium with", computer storage device

Claim 19 (currently amended)

On line 1, before "of claim ", replace " computer readable medium with", computer storage device

Claim 20 (currently amended)

On line 1, before "of claim ", replace " computer readable medium with", computer storage device

Claim 21 (currently amended)

On line 1, before "of claim ", replace " computer readable medium with", computer storage device

Claim 22 (currently amended)

On line 1, before "of claim ", replace " computer readable medium with", computer storage device

Claim 23 (currently amended)

On line 1, before "embedded in a processor", replace " computer readable medium with", computer storage device

Claim 24 (currently amended)

On line 1, before "of claim ", replace " computer readable medium with", computer storage device

Claim 25 (currently amended)

On line 1, before "of claim ", replace " computer readable medium with", computer storage device

Claim 28 (currently amended)

On line 1, before "having stored ", replace " machine-readable medium with", computer storage device

Claim 29 (currently amended)

On line 1, before "of claim ", replace " machine-readable medium with", computer storage device

### **Reasons for Allowance**

3. Examiner has reviewed and considered Applicant's arguments and comments as indicated in Applicant's amendment of 04/28/08 and per Applicants arguments on page 11 of his response and also per Examiner's amendment of 07/16/08, claims 1 – 3 and 5 – 29 and are now in condition for allowance.

The following is an Examiner's statement of reasons for allowance.

The prior art of record does not teach or fairly suggest at least the limitations of:

“...finding a first instruction and a second instruction in the program file that each perform a single operation and the second instruction depends on a result of the first instruction; and

forming a fused instruction that includes determining a fused opcode that represents both a first operation of the first instruction and a second operation of the second instruction ...” ,

and as best illustrated by FIG 3 and 6, in such a manner as recited in independent claims 1 9,17, 23 and 28.

"...performing a first operation in a first arithmetic logic unit (ALU) of a fused instruction execution unit and a second operation in a second ALU of the fused instruction execution unit, wherein a result of the first ALU is input into the second ALU and within one clock cycle, the first ALU performs the first operation and the second ALU performs the second operation..." , and as best illustrated by FIG 3 and 6, in such a manner as recited in independent claims 26.

Therefore, all claims remaining claims 1 -3 and 5 - 29 are in condition for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."



### **Correspondence Information**

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuck Kendall whose telephone number is 571-2723698. The examiner can normally be reached on 10:00 am - 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Dam can be reached on 571-2723695. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Chuck O Kendall/  
Examiner, Art Unit 2192

